

Product datasheet for RC207599

TFF1 (NM_003225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFF1 (NM_003225) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TFF1
Synonyms:	BCEI; D21S21; HP1.A; HPS2; pNR-2; pS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>>RC207599 representing NM_003225</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGGCCACCATGGAGAACAAGGTGATCTGCGCCCTGGTCTGGTGTCCATGCTGGCCCTCGGCACCCTGGCCGAGGCCAGACAGAGACGTGTACAGTGGCCCCCGTGAAAGACAGAATTGTGGTTTCTGGTGTCAAGCCCTCCAGTGTGCAAATAAGGGCTGCTTTTCGACGACACCGTTCGTGGGTCCCTGGTGTCTATCCTAATACCATCGACGTCCCTCCAGAAGAGGAGTGTGAATTT</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>>RC207599 representing NM_003225</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MATMENKVICALVLVSMALGLTAEAQTTCTVAPRERQNCGFPGVTPSQCANKGCCFDDTVRGVPWCFYPNTIDVPPEEECEF</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	https://cdn.origene.com/chromatograms/mg2847_e01.zip
Restriction Sites:	SgfI-MluI


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Cloning Scheme:


ACCN: NM_003225

ORF Size: 252 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

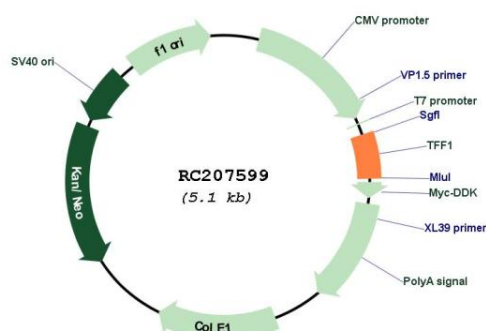
RefSeq: [NM_003225.3](#)

RefSeq Size: 508 bp

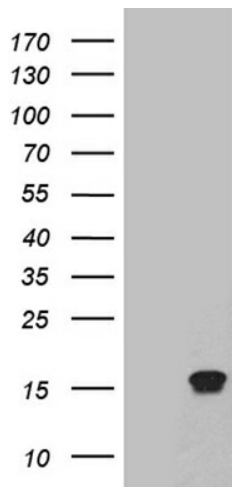
RefSeq ORF:	255 bp
Locus ID:	7031
UniProt ID:	P04155
Cytogenetics:	21q22.3
Domains:	PD
Protein Families:	Druggable Genome, Secreted Protein
MW:	9.15 kDa

Gene Summary: Members of the trefoil family are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides. They are stable secretory proteins expressed in gastrointestinal mucosa. Their functions are not defined, but they may protect the mucosa from insults, stabilize the mucus layer, and affect healing of the epithelium. This gene, which is expressed in the gastric mucosa, has also been studied because of its expression in human tumors. This gene and two other related trefoil family member genes are found in a cluster on chromosome 21. [provided by RefSeq, Jul 2008]

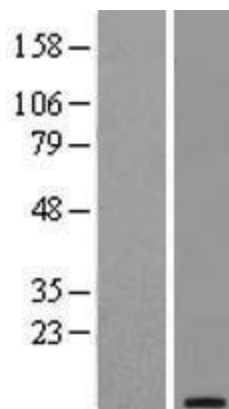
Product images:



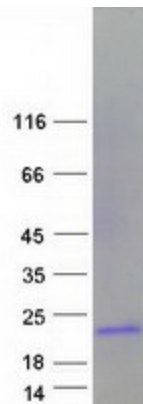
Circular map for RC207599



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TFF1 (Cat# RC207599, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TFF1 (Cat# [TA804565]). Positive lysates [LY418822] (100ug) and [LC418822] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418822]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207599 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TFF1 protein (Cat# [TP307599]). The protein was produced from HEK293T cells transfected with TFF1 cDNA clone (Cat# RC207599) using MegaTran 2.0 (Cat# [TT210002]).